ABSTRACT

To provide a hybrid fuel cell system for improving converter efficiency. In a hybrid fuel cell system (1) in which a fuel cell (22) and an electricity storage device (21) are connected via a voltage converter (20), the voltage converter (20) has a plurality of phases (P1, P2, P3), and the number of phases of operation can be can be changed in accordance with the power passing through the voltage converter (20). As the number of phases can be changed in accordance with the power passing through the voltage converter (20), it is possible to select the number of phases that give a higher efficiency voltage conversion in accordance with the passing power, and the efficiency of the voltage converter (20) can be greatly improved.